

$$F_{\nabla} = 2\pi \cdot r^3 \frac{\sqrt{\epsilon_B}}{c} \left(\frac{\epsilon - \epsilon_B}{\epsilon + 2\epsilon_B} \right) (\nabla \cdot I)$$

F_{∇} = Optical force on particle towards higher intensity

r = Radius of particle

ϵ_B = Dielectric constant of background medium

ϵ = Dielectric constant of particle

I = Light intensity (W/cm^2)

∇ = Spatial derivative

FIG. 1

FIG. 2

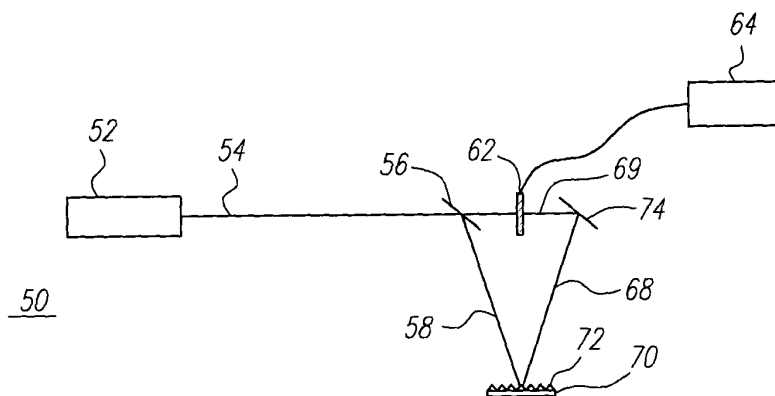
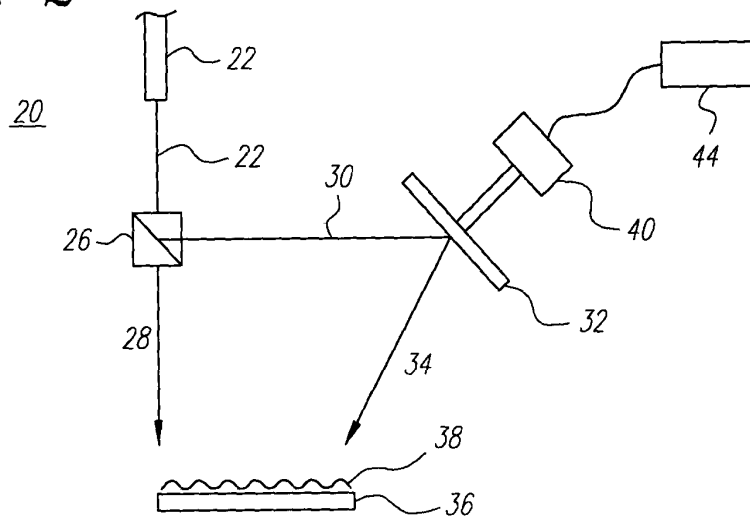


FIG. 3

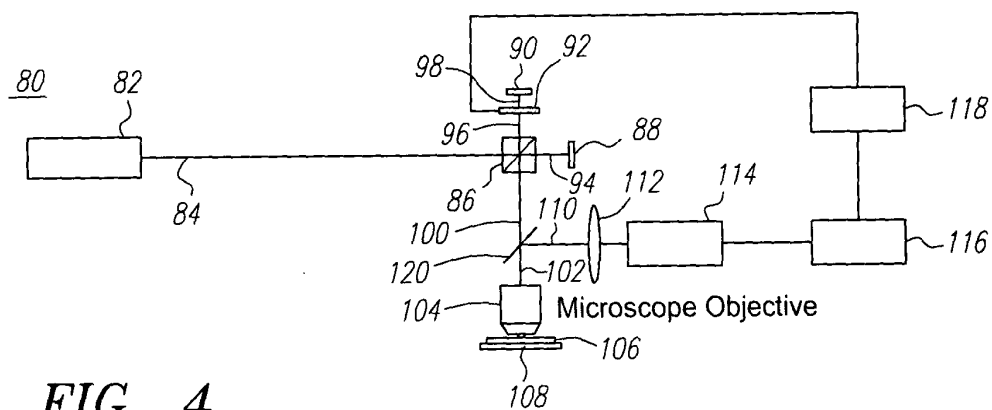


FIG. 4

FIG. 4A

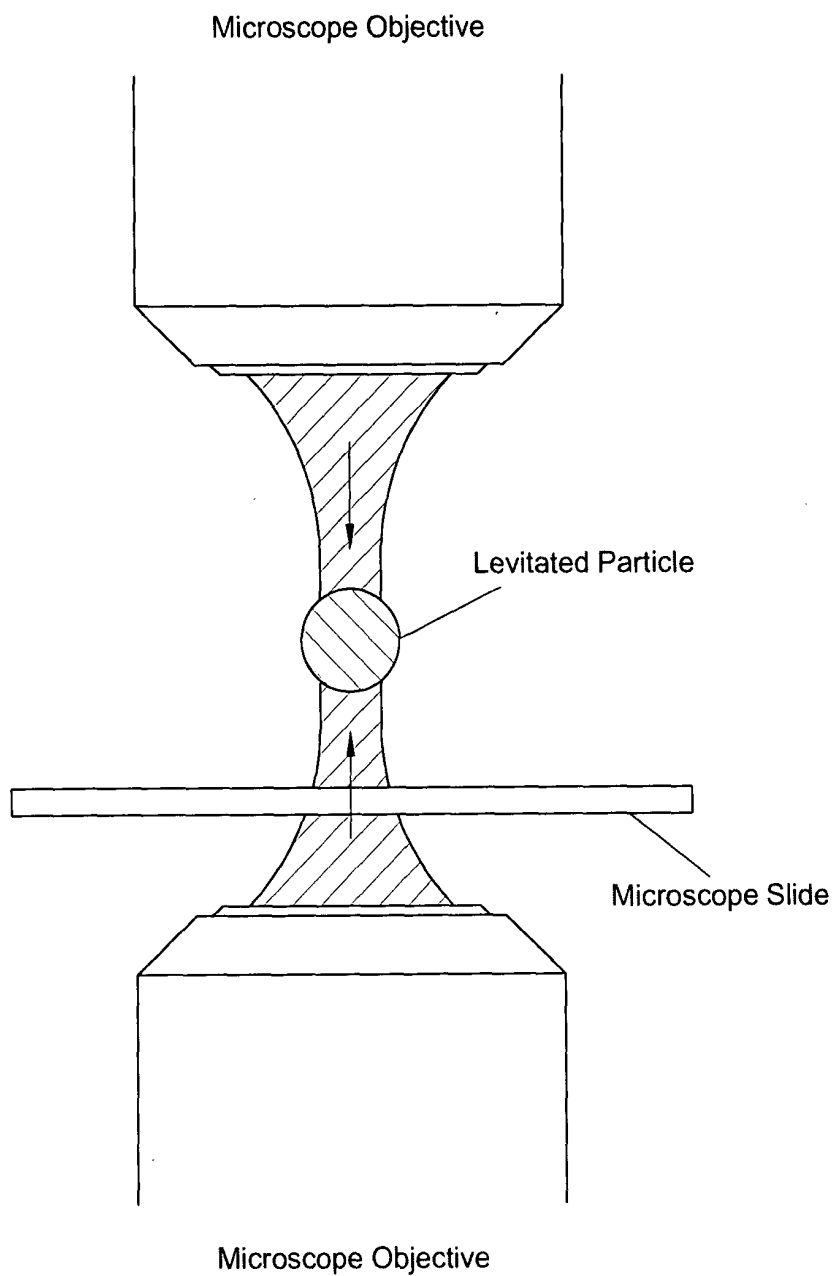
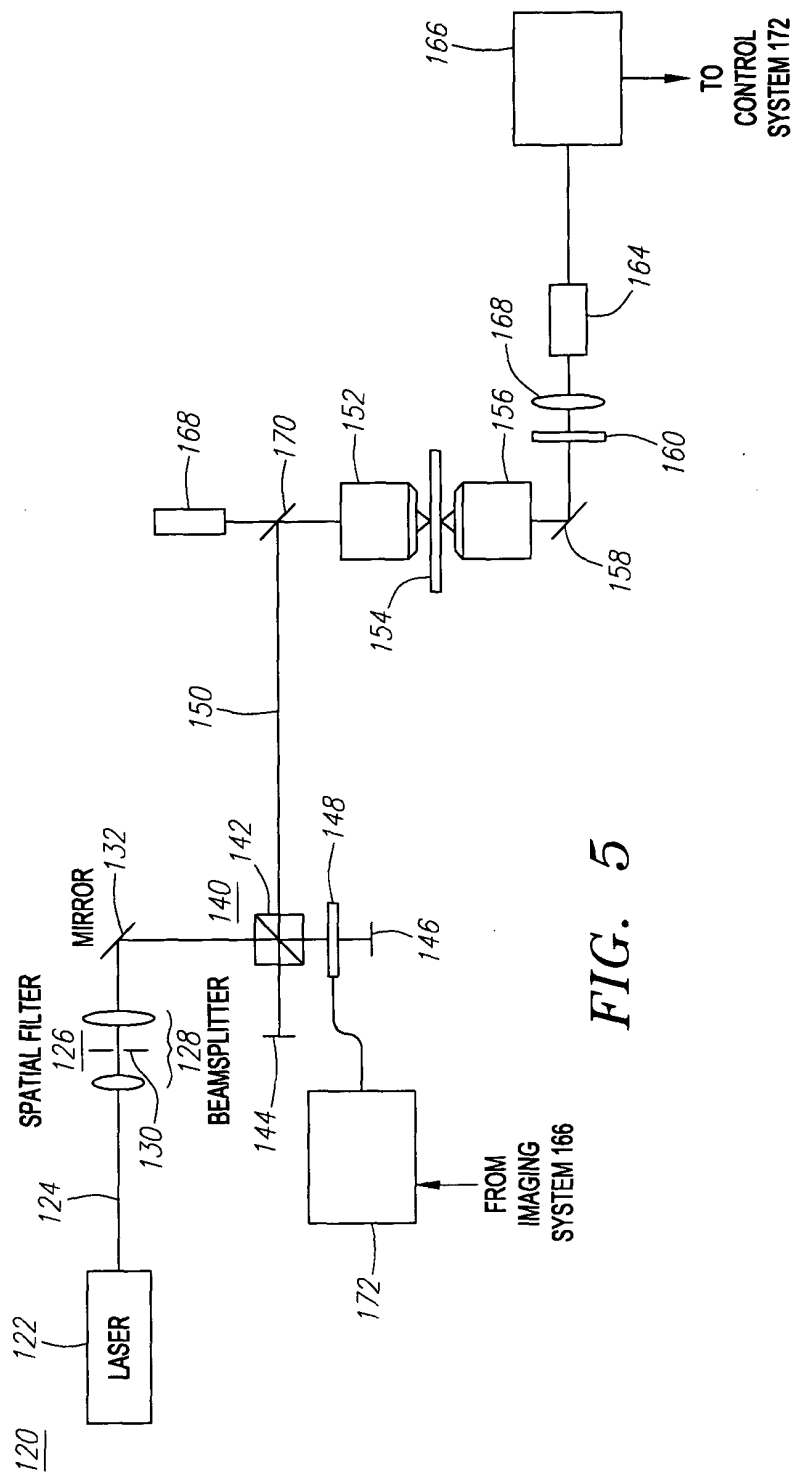


FIG. 4A



FOOT REFERENCE

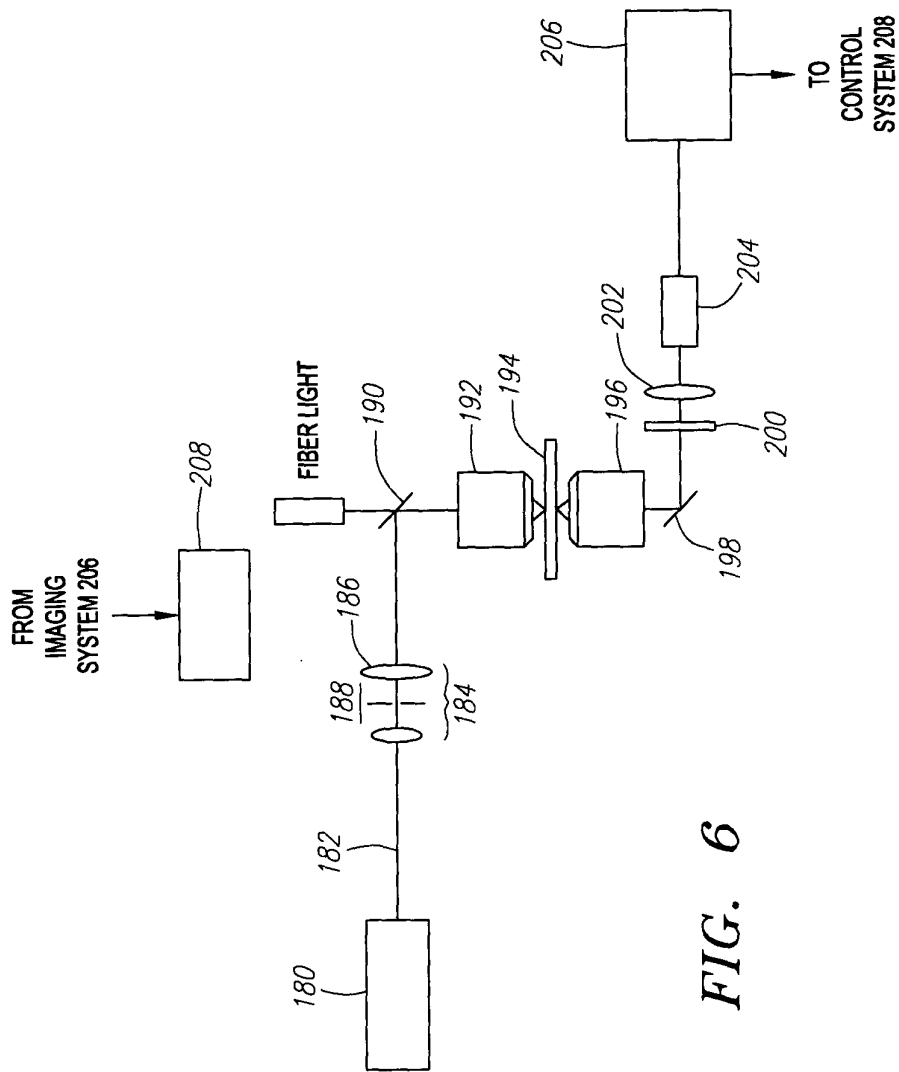


FIG. 6

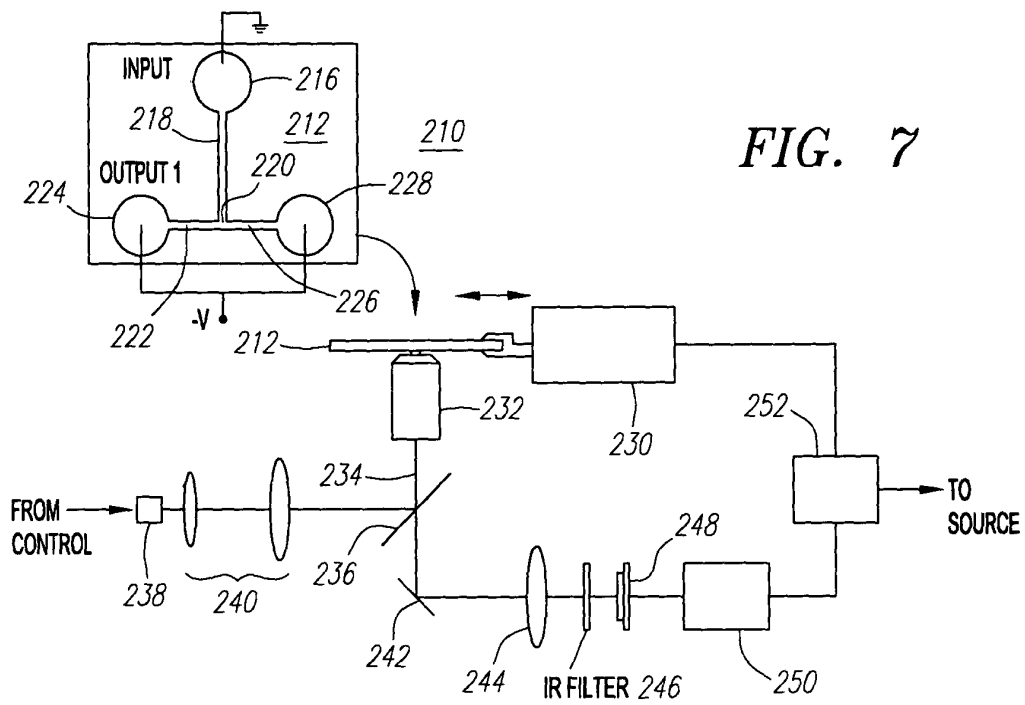
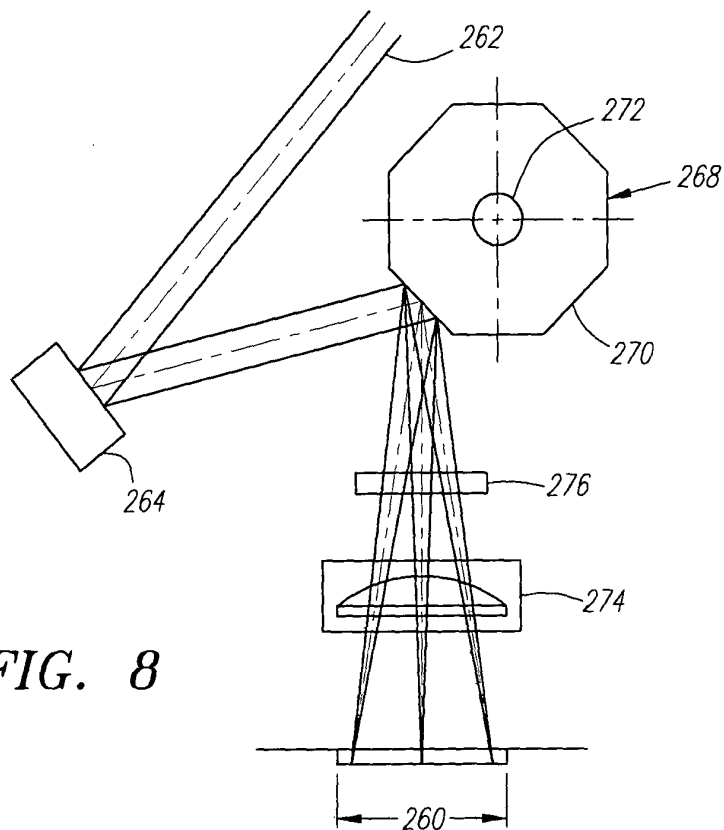


FIG. 8



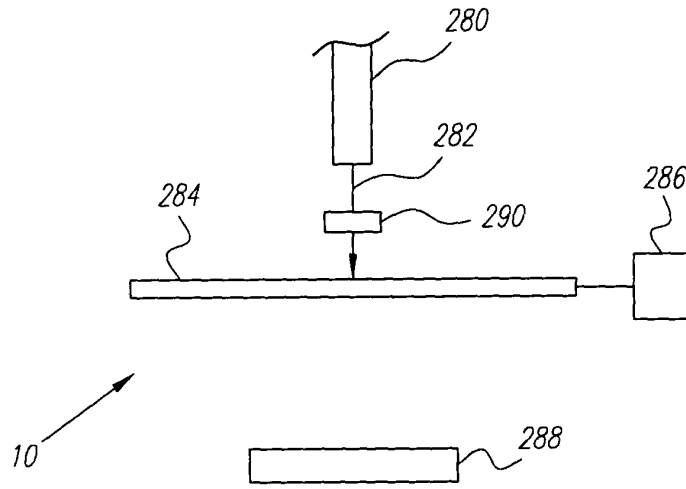


FIG. 9A

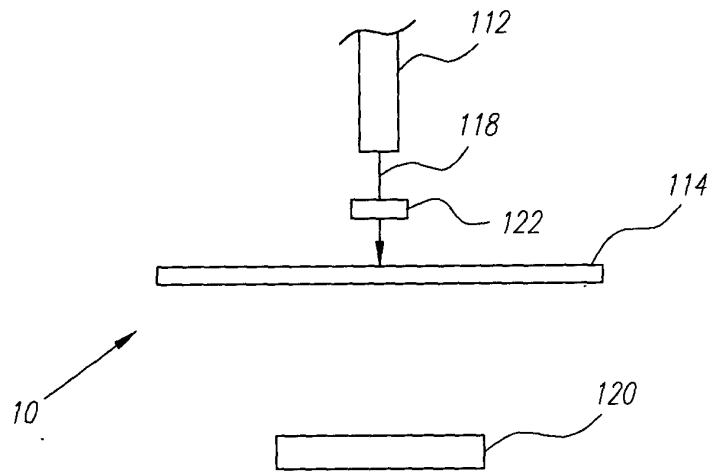


FIG. 9B

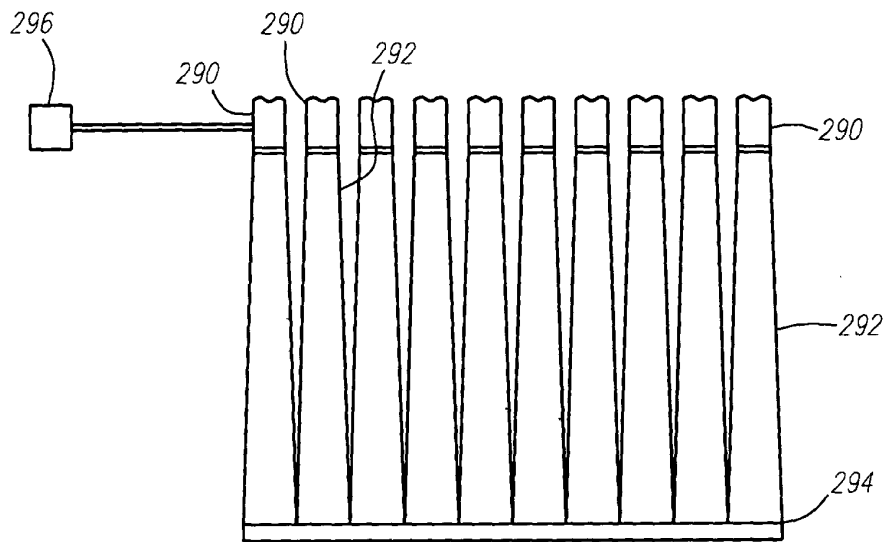
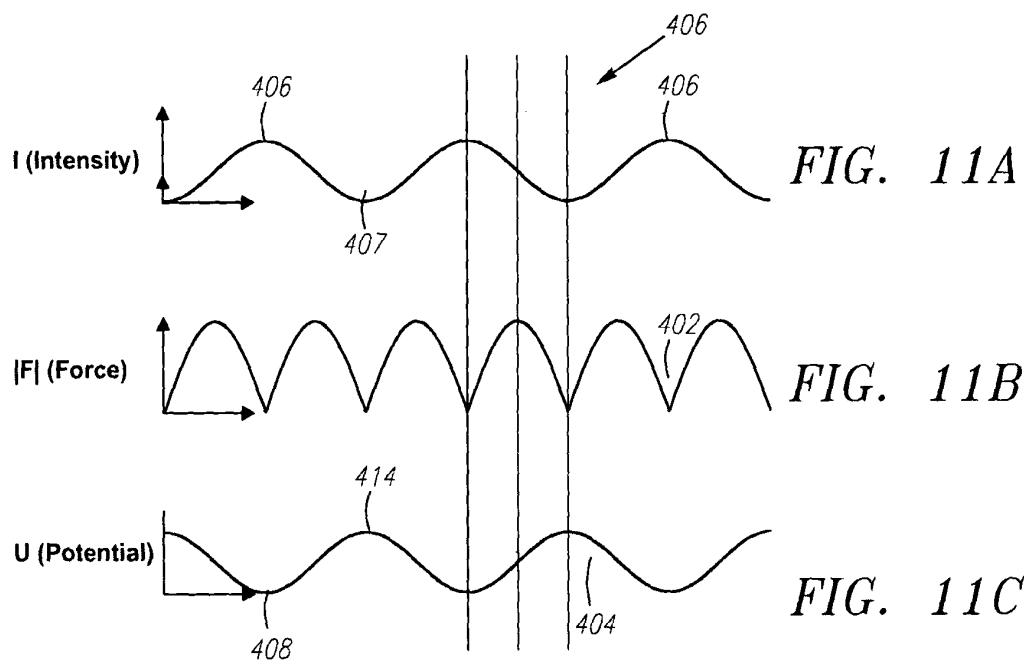


FIG. 10



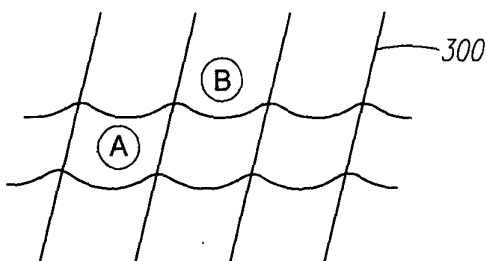


FIG. 12A

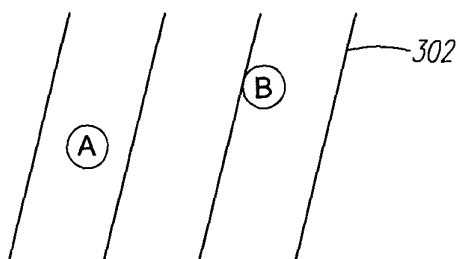


FIG. 12B

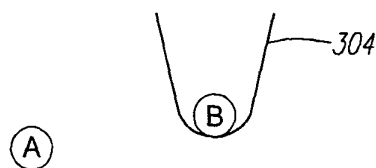


FIG. 12C

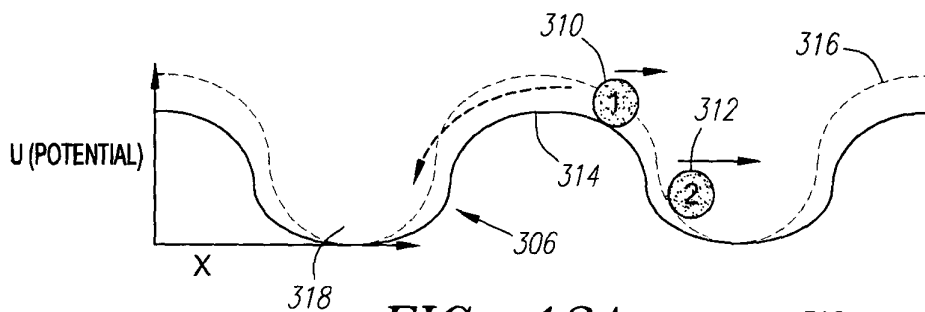


FIG. 13A

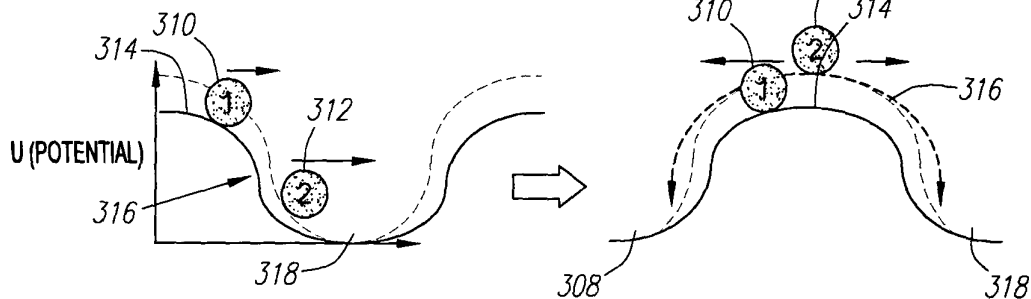


FIG. 13B

FIG. 13C

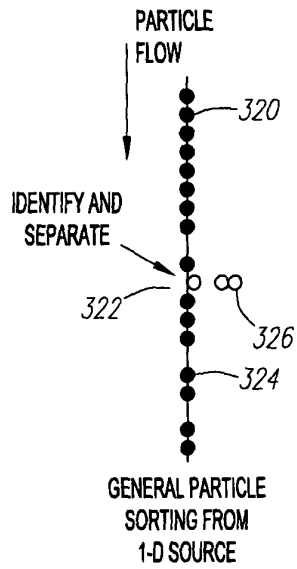


FIG. 14A

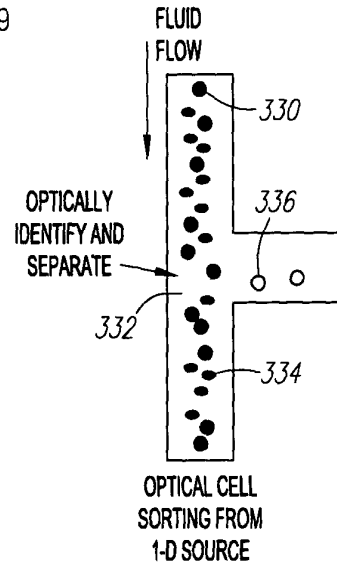


FIG. 14B

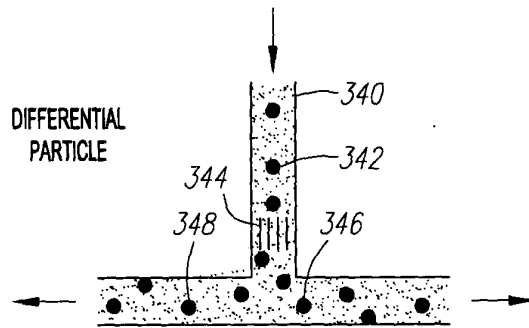


FIG. 15

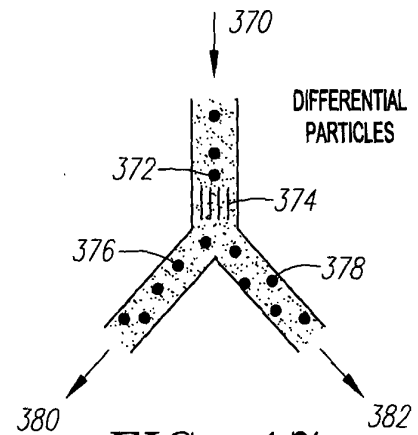


FIG. 17

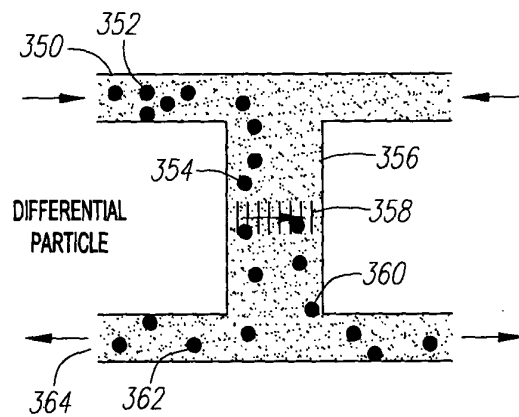


FIG. 16

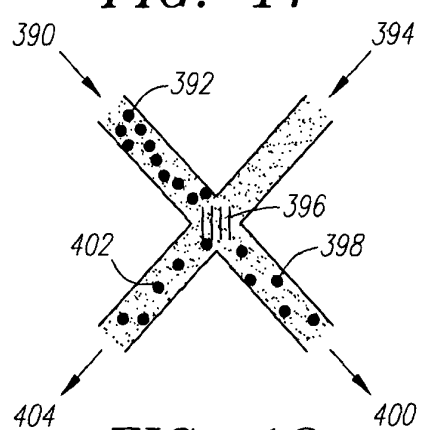


FIG. 18

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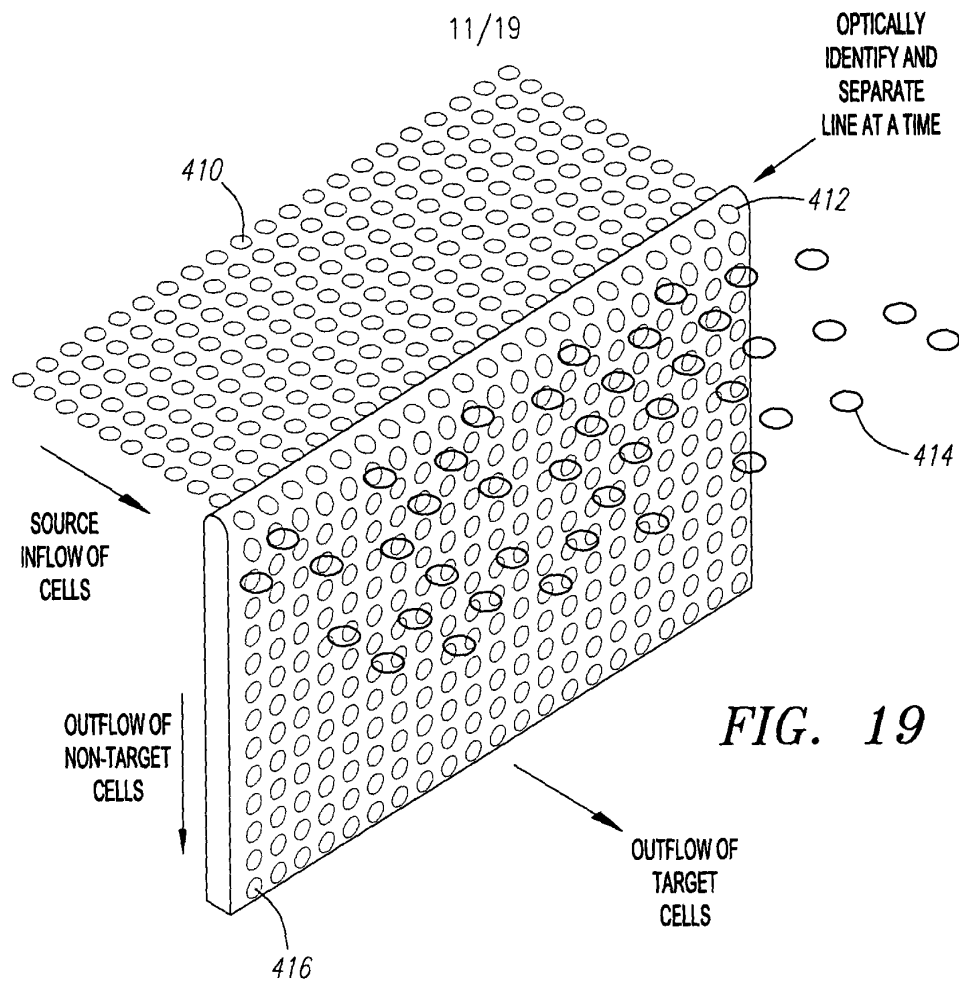


FIG. 19

FIG. 20

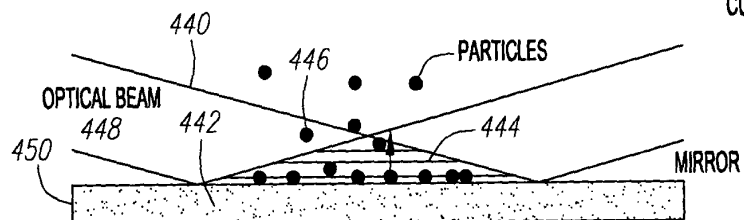
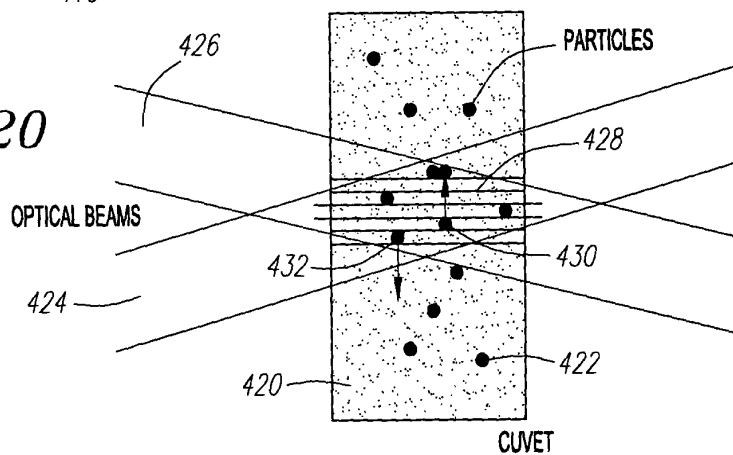


FIG. 21

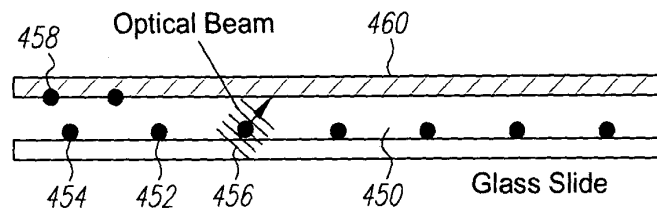
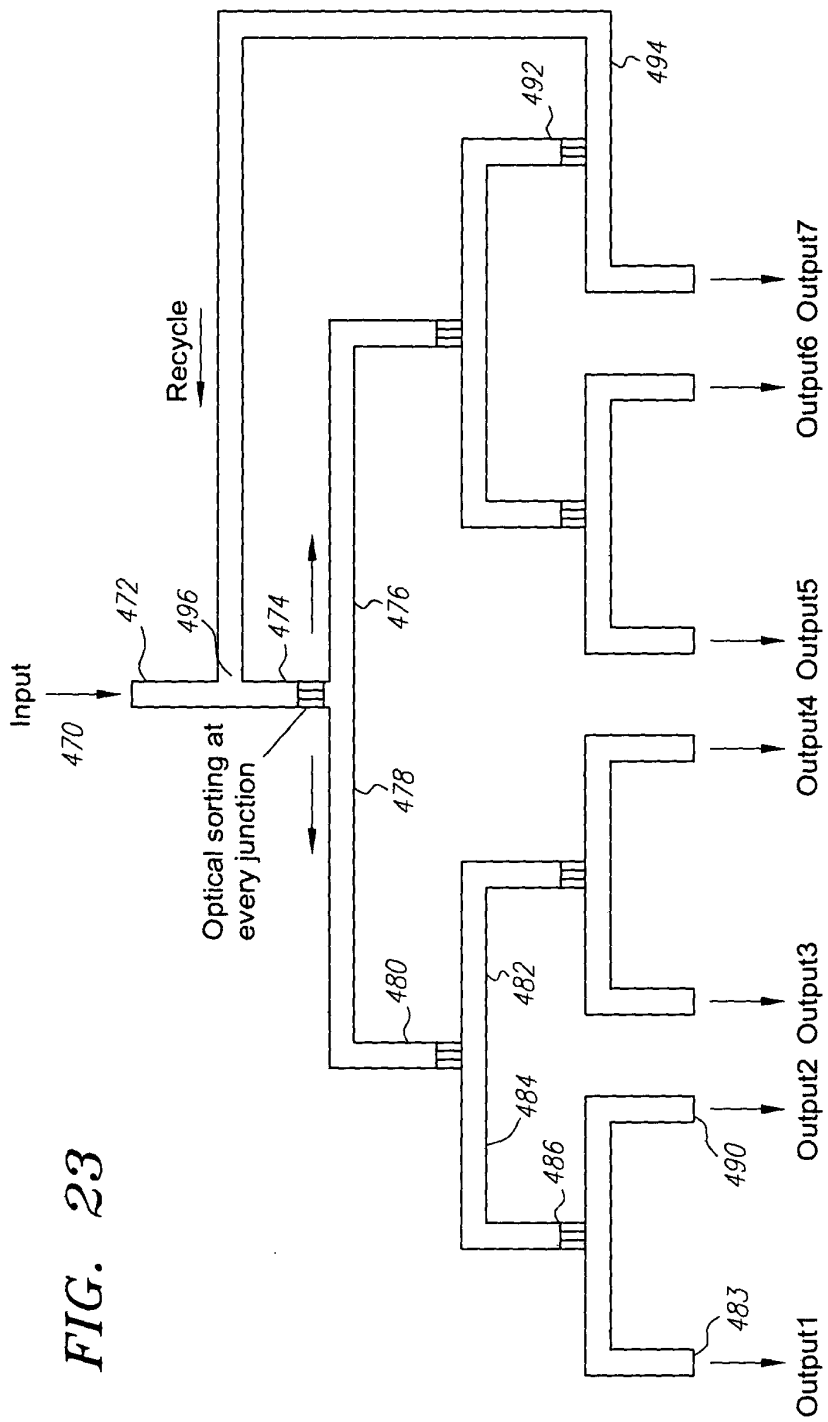
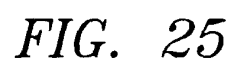
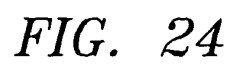
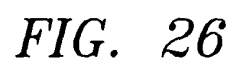


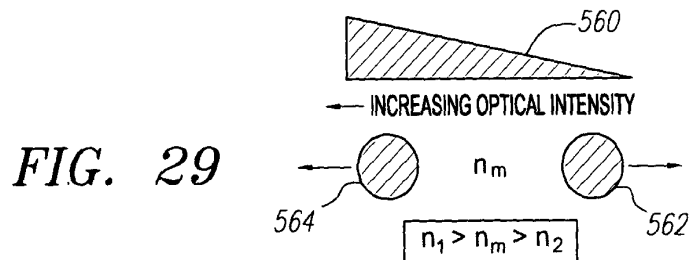
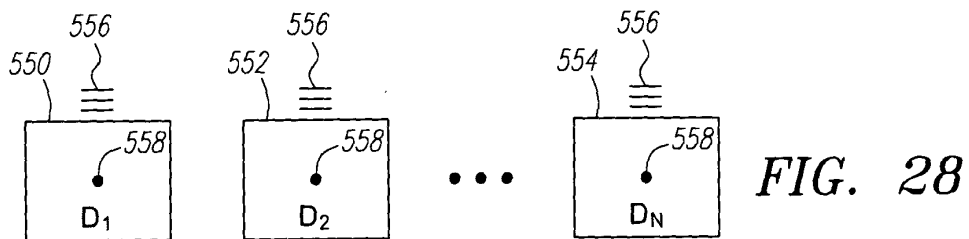
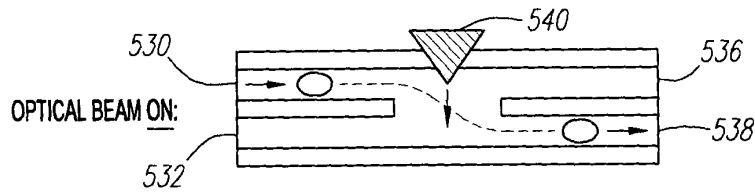
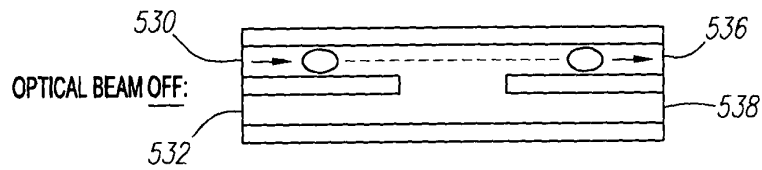
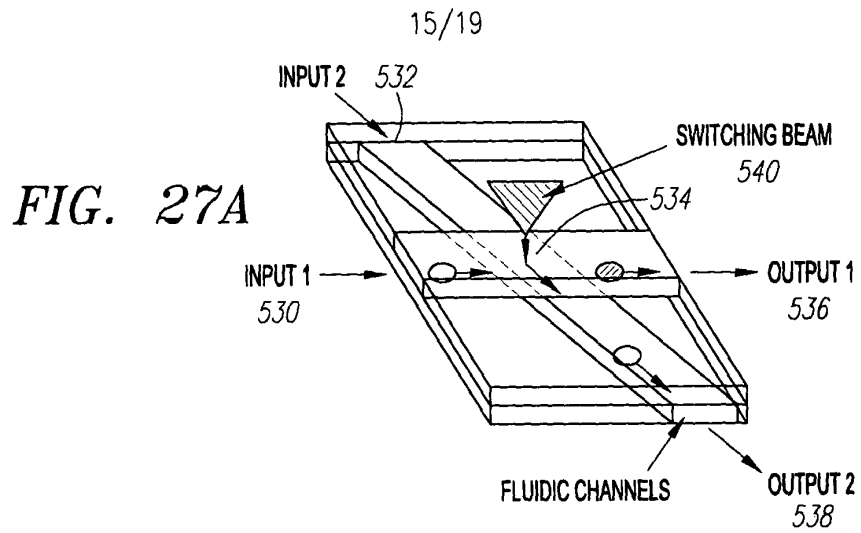
FIG. 22





SCATTER FORCE SEPARATION





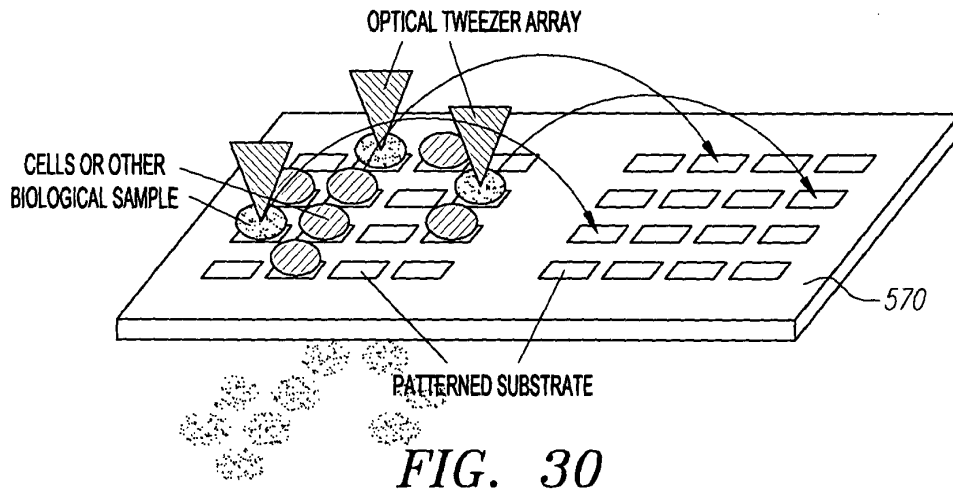


FIG. 30

HEMOGLOBIN - O₂ ABSORPTION SPECTRUM

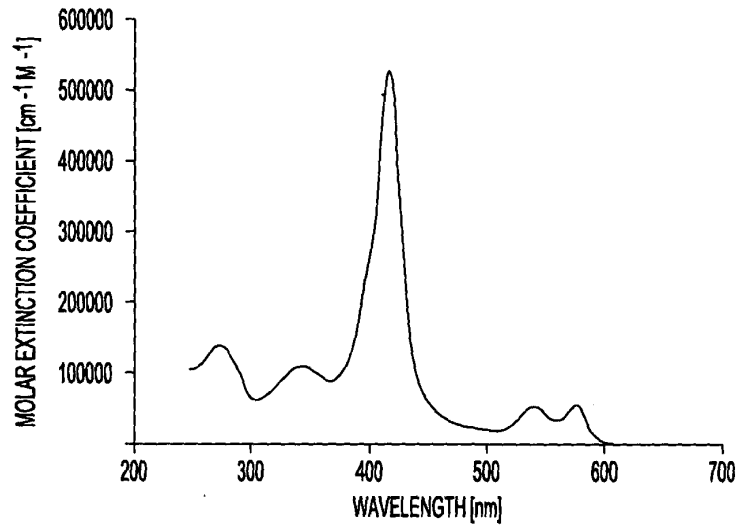


FIG. 31

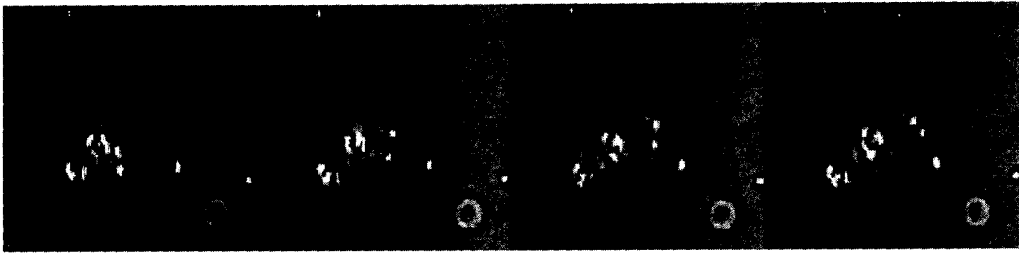


FIG. 32

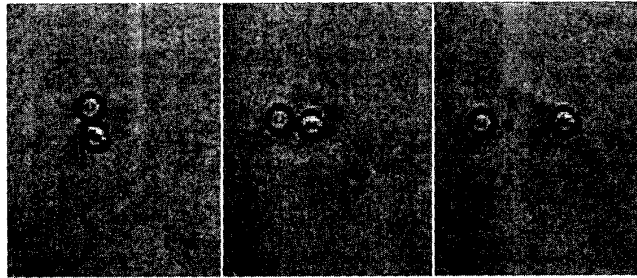
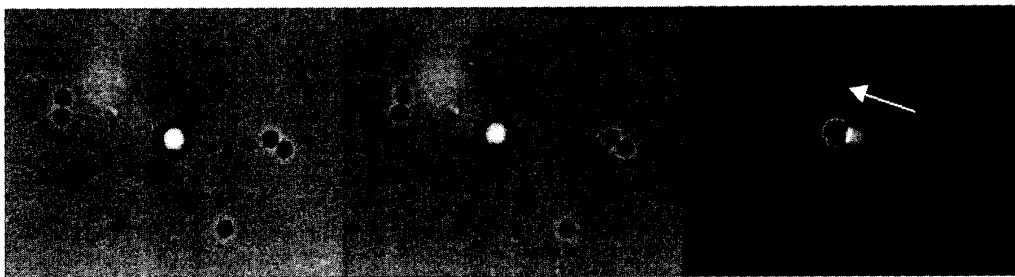


FIG. 33



Before

After

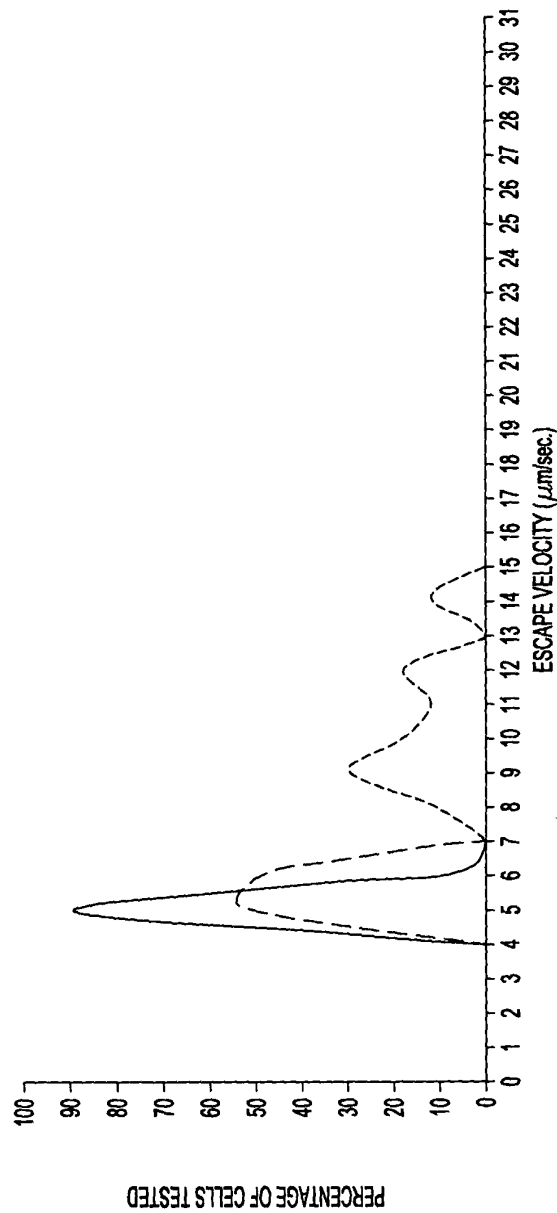
Difference

FIG. 34

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DISTRIBUTION OF ESCAPE VELOCITIES
READING TAKEN IN PBS/1% BSA BUFFER
RAIN-X COATED SLIDE/CYTOP COATED COVERSIP



— RBC, INDIVIDUAL 1
- - - RBC, INDIVIDUAL 2
... WBC, INDIVIDUAL 2

FIG. 35

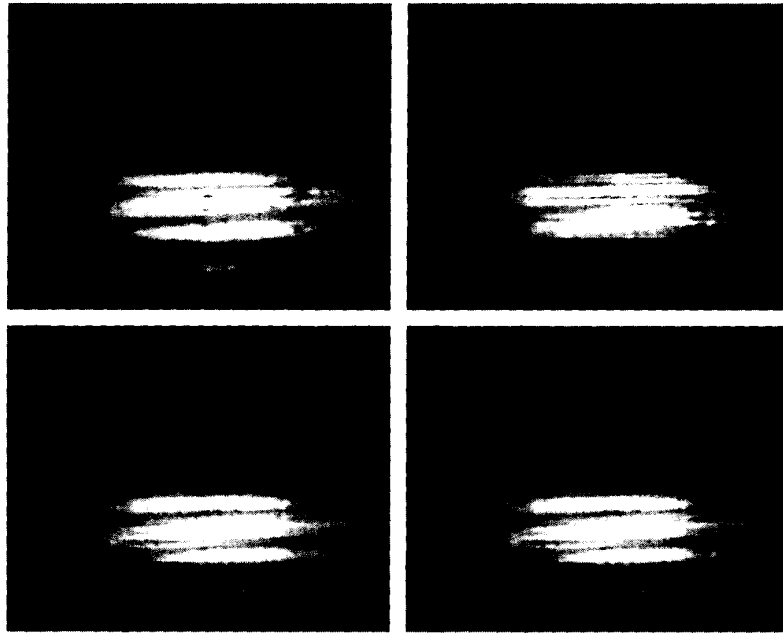


FIG. 36

0993388-11401
TTTTT" 88E550